AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

In the claims

1. - 122. (Cancelled).

123. (Currently Amended): A device for managing respiration of a patient comprising:

at least one electrode configured to be coupled to target a diaphragm or phrenic nerve tissue of a patient's body wherein the at least one electrode is configured to deliver electrical stimulation to the diaphragm or phrenic nerve tissue to thereby elicit a diaphragm response; and

a stimulator configured to deliver a stimulation signal to the <u>diaphragm or phrenic</u>

<u>nerve</u> tissue through the at least one electrode <u>in response to sensed respiration due to phrenic</u>

<u>nerve activity detected internally within the patient's body</u> to elicit an inspiration duration different from an intrinsic inspiration duration of an intrinsic breath.

- 124. (Previously Presented): The device of claim 123 wherein the stimulator is configured to deliver a stimulation signal to the tissue through the at least one electrode to elicit an increased inspiration duration with respect to an intrinsic inspiration duration of an intrinsic breath.
- 125. (Previously Presented): The device of claim 123 wherein the stimulator is configured to deliver a stimulation signal to the tissue through the at least one electrode to elicit a decreased exhalation duration with respect to an intrinsic exhalation duration of an intrinsic breath.
- 126. (Currently Amended): A device for managing respiration of a patient comprising:

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at least one electrode configured to be coupled to target a diaphragm or phrenic nerve tissue of a patient's body wherein the at least one electrode is configured to deliver electrical stimulation to the diaphragm or phrenic nerve tissue to thereby elicit a diaphragm response; and

a stimulator configured to deliver a stimulation signal to the <u>diaphragm or phrenic</u>

nerve tissue through the at least one electrode <u>in response to sensed respiration due to phrenic</u>

nerve activity detected internally within the patient's body to elicit an exhalation duration

different from an intrinsic exhalation duration of an intrinsic breath.

127. (Currently Amended): The device of claim [[128]] 123 wherein the stimulator is configured to deliver a stimulation signal to the tissue through the at least one electrode to elicit a decreased exhalation duration with respect to an intrinsic exhalation duration of an intrinsic breath.

128. - 140. (Cancelled).

141. (Previously Presented): The device of claim 123 further configured to elicit an inspiration rate different from an intrinsic inspiration rate.

142. (Previously Presented): The device of claim 123 further configured to elicit an exhalation rate different from an intrinsic exhalation rate.

143. – 148. (Cancelled).

149. (Previously Presented): The device of claim 124 wherein the stimulator is configured to deliver a stimulation signal to the tissue through the at least one electrode to elicit a slow elongated inspiration.

150. (Previously Presented): The device of claim 123 wherein the stimulator is configured to deliver a stimulation signal to the tissue through the at least one electrode to elicit a fast, short inspiration.

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151. (Previously Presented): The device of claim 123 wherein the stimulator is configured to deliver low level sequential stimulations.

- 152. (Previously Presented): The device of claim 125 wherein the stimulator is configured to deliver a stimulation signal that is directed to manipulating blood gases to thereby treat apnea.
- 153. (Currently Amended): A device for managing respiration of a patient comprising:

at least one electrode configured to be coupled to target a diaphragm or phrenic nerve tissue of a patient's body wherein the at least one electrode is configured to deliver electrical stimulation to the diaphragm or phrenic nerve tissue to thereby activate at least a portion of [[a]] the diaphragm; and

a stimulator configured to deliver a stimulation signal to the <u>diaphragm or phrenic</u>

<u>nerve</u> tissue through the at least one electrode <u>in response to sensed respiration due to phrenic</u>

<u>nerve activity detected internally within the patient's body</u> to elicit an inspiration duration different from an intrinsic inspiration duration of an intrinsic breath.

- 154. (Previously Presented): The device of claim 153 wherein the stimulator is configured to deliver a stimulation signal to the tissue through the at least one electrode to elicit an increased inspiration duration with respect to an intrinsic inspiration duration of an intrinsic breath.
- 155. (Previously Presented): The device of claim 153 wherein the stimulator is configured to deliver a stimulation signal to the tissue through the at least one electrode to elicit a decreased exhalation duration with respect to an intrinsic exhalation duration of an intrinsic breath.
- 156. (Previously Presented): The device of claim 153 wherein the stimulator is configured to deliver a stimulation signal to the tissue through the at least one electrode to

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elicit a decreased exhalation duration with respect to an intrinsic exhalation duration of an intrinsic breath.

- 157. (Previously Presented): The device of claim 153 further configured to elicit an inspiration rate different from an intrinsic inspiration rate.
- 158. (Previously Presented): The device of claim 153 further configured to elicit an exhalation rate different from an intrinsic exhalation rate.

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